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1. AF141-005: SMART Bandage for Monitoring Wound Perfusion

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate an innovative wound dressing that quantitatively reports tissue perfusion for monitoring and optimizing wound healing. DESCRIPTION: The current standard-of-care for wounds and grafts relies on subjective observations of tissue health that are episodic and can vary greatly between caregivers with different degrees of training (1). For example, measurements o ...

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2. AF141-006: Shockwave Consolidation of Materials

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: To develop materials that are far from thermodynamic equilibrium domain (highly doped polycrystalline materials, nano-structured systems and supersaturated structures, etc.). The processing includes shockwave consolidation and external fields. DESCRIPTION: Conventional processing techniques typically prepare materials from a melt or using powder metallurgy techniques, such as hot ...

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3. AF141-009: Single Photon Sources for Free Space Quantum Key Distribution

Systems

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate an on demand single photon source for use in a free-space Quantum Key Distribution (QKD) satellite to ground configuration. DESCRIPTION: Security in quantum key distribution (QKD) arises from the principle that the quantum state of a single photon, prepared in an unknown basis, can only be determined with a probabilistic outcome. This fact both limits the ...

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4. AF141-012: Rapid Mission Planning for Desirable Viewing Conditions

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: To develop a method to optimize scheduling and planning for Space Situational Awareness (SSA) collects. DESCRIPTION: The AFSPC (Air Force Space Command) Space Surveillance Network (SSN) and AFRL (Air Force Research Laboratory) utilizes a number of ground based observatory telescope systems to observe satellites and obtain awareness to support Space Situational Awareness (SSA). Th ...

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5. AF141-013: Efficient Photometry

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Decrease the time burden of photometric collection using stars serendipitously collected with optical sensors without compromising calibration accuracy and data quality. DESCRIPTION: Photometric data collection techniques have become key for space surveillance. Photometric techniques can be used on most existing electro-optical sensors and have become a routine collection method ...

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6. AF141-014: Decision Aid to Threat Identification and Intent Modeling

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a method to monitor satellite observables using optical and other data sources to predict, and understand, future activities of operational satellites in orbit. DESCRIPTION: Determine future space activities by data mining to link disparate data together to determine patterns and trends that may be indicators of future events that might threaten our satellites. To accompli ...

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7. AF141-015: Strategic Collection for Rapid Return to Continuous Monitoring for Deep Space Wide Area Search and Tasked Sensors

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop collection CONOPs and software prioritized at GEO (extending as possible to other regimes) using optical telescopes to maintain custody of objects, and detect and revisit new objects that enter the space. DESCRIPTION: The potential exists to maintain consistent awareness of all man-made objects extending to Geosynchronous Earth Orbits (GEOs) and super-synchronous regimes b ...

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8. AF141-016: Persistent Wide Field Space Surveillance

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: To develop and demonstrate innovative, scalable approach to space object detection that permits the detection of dim orbiting objects using a very wide field of view, non-articulated sensor system architecture. DESCRIPTION: Conceive an approach to this challenging field of dim object detection/wide field of view (FOV) surveillance that exploits recent developments in sensors and d ...

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9. AF141-019: Battlefield Airmen (BA) Mission Recorder

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate a device that can record essential information from special operations missions in order to perform mission analysis/debriefing, enhance operational procedures, and improve BA training and mission rehearsals. DESCRIPTION: Battlefield Airmen missions range from Close Air Support, to field surveys, to direct combat. These special operations are typically hig ...

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10. AF141-020: Improved Computerized Ground Forces for Close Air Support Training

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate intelligent agents to interact within a computer generated forces suite for training aid use in Joint Terminal Attack Controller Training simulated environment. DESCRIPTION: In current military operations our missions have become more complex and dynamic than they have been in the past. Given the nature of current operations the requirements for training an ...

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